

<110> Rosen et al.

<120> 44 Human Secreted Proteins

<130> P2024P1

<140> Unassigned

<141> 1999-08-05

<150> 60/074,118

<151> 1998-02-09

<150> 60/074,157

<151> 1998-02-09

<150> 60/074,137

<151> 1998-02-09

<150> 60/074,341

<151> 1998-02-09

<150> 60/074,141

<151> 1998-02-09

<160> 172

<170> PatentIn Ver. 2.0

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<211> 733

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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32

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<213> Homo sapiens

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73

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 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>
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<211> 928

<212> DNA

<213> Homo sapiens

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<210> 14

<211> 1590

<212> DNA

<213> Homo sapiens

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 <222> (406)
 <223> n equals a,t,g, or c

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<222> (892)

<223> n equals a,t,g, or c

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<210> 18

<211> 1605

<212> DNA

<213> Homo sapiens

<400> 18

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<210> 19

<211> 2089

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (774)

<223> n equals a,t,g, or c

<400> 19

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<210> 20

<211> 1281

<212> DNA

<213> Homo sapiens

<400> 20

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<210> 21

<211> 1761

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1207)

<223> n equals a,t,g, or c

<400> 21

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<211> 1964
<212> DNA
<213> Homo sapiens
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<210> 26
<211> 933
<212> DNA
<213> Homo sapiens
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<400> 27					
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<210> 28
 <211> 960
 <212> DNA
 <213> Homo sapiens

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 <211> 1067
 <212> DNA
 <213> Homo sapiens

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 <211> 1063
 <212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (965)

<223> n equals a,t,g, or c

<400> 30

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<210> 31

<211> 1430

<212> DNA

<213> Homo sapiens

<400> 31

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 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1339)
 <223> n equals a,t,g, or c

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 <212> DNA
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<210> 42

<211> 1268

<212> DNA

<213> Homo sapiens

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<221> SITE

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (15)

<223> n equals a,t,g, or c

<220>

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<223> n equals a,t,g, or c

<220>

<221> SITE

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 <222> (12)
 <223> n equals a,t,g, or c

<220>
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 <222> (16)
 <223> n equals a,t,g, or c

<220>
 <221> SITE

<222> (170)
<223> n equals a,t,g, or c

<220>
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<222> (184)
<223> n equals a,t,g, or c

<220>
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<222> (728)
<223> n equals a,t,g, or c

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tcgtag

<210> 46
<211> 2094
<212> DNA
<213> Homo sapiens

<400> 46
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<210> 47
 <211> 956
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
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 <223> n equals a,t,g, or c

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	ttgtgtctgg	cacgtgtgtg	tggaagaaga	aatgttagtg	cccttttaaa	aattgttcatt	240
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<210> 48

<211> 1859
 <212> DNA
 <213> Homo sapiens

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<210> 49
 <211> 1461
 <212> DNA
 <213> Homo sapiens

<400> 49
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 <211> 1238
 <212> DNA
 <213> Homo sapiens

<400> 50	
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	attttcattt
	aaacagttcc
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	catttcaaaa
	atcagatttt
	acttagctaw
	gaagatgacc
	acattgtctt
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	ttctccattt
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	atgacagaac
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	gtgttaaaaa
	1238

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 <211> 2581
 <212> DNA
 <213> Homo sapiens

<400> 51	
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ataattcttc	acatttcaga
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	360
	420
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	540
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<210> 52
 <211> 991
 <212> DNA
 <213> Homo sapiens

<400> 52						
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991

<210> 53
 <211> 2422
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (388)
 <223> n equals a,t,g, or c

<400> 53
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 tccagtatgt aaatgaatg tctataaatc ttttgtatag tcattttctc tgctccttaa 2340
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 aaaaaaaaa aaaaaaactc ga 2422

<210> 54

<211> 985
 <212> DNA
 <213> Homo sapiens

<400> 54
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 tcatgatagt gtttctaaca atggccacat aagtggaaca tcccttaaga attttgccct 240
 ctacagcagt gccaatctgc cacccttatt tgatcatttc tctcctcctt tggcattgta 300
 gacaccattt ttctctgtgt atgaccctac ttctctttat cttcttggc gattgctttt 360
 ccactccagg gagttctgtg ttgacacac agggaggtgtg ggtagtgtgt tactctgtaa 420
 ataagtgtt agccgtgcag cactgccaaag gaattgcacc aaatgtgtat gcattagcag 480
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 tagtcagaaa caaacacaat ttctctcctt ggtaagcctg gtctgttggg aggtttgata 660
 agtaaaaaa agactgagar gccggggagcg gtgctcascg ctgtaatccc agtactttgg 720
 gaggccgarg tgggtggawc acctgaggtc aggarttcaa gaccagcctg gccaacatga 780
 taaaaccccg tctctactaa aaatmcaaaa cctagccarg catggtggca ggcgcctata 840
 atccagacta ctcgggggct gaggcagaag aatcgcttga acccgggagg cagaggttgc 900
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<210> 55
 <211> 932
 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (890)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (892)
 <223> n equals a,t,g, or c

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 240
 gccatgccac caaccctgct gggatcccg cagaatgggc atgcagccag ccggcggcta
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 780
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 900
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 932

<210> 56
 <211> 957
 <212> DNA
 <213> Homo sapiens

<400> 56
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 360
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 480
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957

<210> 57
<211> 1433
<212> DNA
<213> Homo sapiens

<400> 57
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1433

<210> 58
 <211> 1940
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (1573)
 <223> n equals a,t,g, or c

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 360
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 420
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 660
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 1140
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 1380
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 1940

<210> 59

<211> 1715

<212> DNA

<213> Homo sapiens

<400> 59

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 ccgggtacct ctgcactcac tggcttgctt agggctcctt gtctccatg acagtgatcg
 1320
 aaaaacaggc actcgggaata tgttcagcat ttgctctgct gtcatggtga tggctctgct
 1380
 ggcagtgttg ggaactcttca ccgtggtaag gcatgatgct gagctgcggg taccttcacc
 1440
 tactgaggag ccctatgccc ctgagctgta accccactcc aggacaagat agctgggaca
 1500
 gactcttgaa ttccagctat ccgggattgt acagatctct ctgtgactga ctttgtgact
 1560
 gtctgtggtt ttctcctgcc attgctttgt gtttgggagg acatgatggg ggtgatggac
 1620
 tggaaagaag gtgcacaaaag ttccctctgt gttactccca tttagaaaat aaacactttt
 1680
 aaatgatcaa aaaaaaaaaa aaaaagggcg gccgc
 1715

<210> 60

<211> 308

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (165)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (247)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (308)

<223> Xaa equals stop translation

<400> 60

Met Gly Thr Gln Glu Gly Trp Cys Leu Leu Leu Cys Leu Ala Leu Ser

1	5	10	15
Gly Ala Ala Glu Thr Lys Pro His Pro Ala Glu Gly Gln Trp Arg Ala	20	25	30
Val Asp Val Val Leu Asp Cys Phe Leu Ala Lys Asp Gly Ala His Arg	35	40	45
Gly Ala Leu Ala Ser Ser Glu Asp Arg Ala Arg Ala Ser Leu Val Leu	50	55	60
Lys Gln Val Pro Val Leu Asp Asp Gly Ser Leu Glu Asp Phe Thr Asp	65	70	75
Phe Gln Gly Gly Thr Leu Ala Gln Asp Asp Pro Pro Ile Ile Phe Glu	85	90	95
Ala Ser Val Asp Leu Val Gln Ile Pro Gln Ala Glu Ala Leu Leu His	100	105	110
Ala Asp Cys Ser Gly Lys Glu Val Thr Cys Glu Ile Ser Arg Tyr Phe	115	120	125
Leu Gln Met Thr Glu Thr Thr Val Lys Thr Ala Ala Trp Phe Met Ala	130	135	140
Asn Met Gln Val Ser Gly Gly Gly Pro Ser Ile Ser Leu Val Met Lys	145	150	155
Thr Pro Arg Val Xaa Lys Asn Glu Ala Leu Trp His Pro Thr Leu Asn	165	170	175
Leu Pro Leu Ser Pro Gln Gly Thr Val Arg Thr Ala Val Glu Phe Gln	180	185	190
Val Met Thr Gln Thr Gln Ser Leu Ser Phe Leu Leu Gly Ser Ser Ala	195	200	205
Ser Leu Asp Cys Gly Phe Ser Met Ala Pro Gly Leu Asp Leu Ile Ser	210	215	220
Val Glu Trp Arg Leu Gln His Lys Gly Arg Gly Gln Leu Val Tyr Ser	225	230	235
Trp Thr Ala Gly Arg Gly Xaa Leu Cys Gly Arg Ala Leu Pro Trp Ser	245	250	255
Leu His Asn Trp Ala Trp Pro Gly Met Pro Pro Ser Pro Cys Pro Ala	260	265	270
Ser Leu Tyr Arg Thr Arg Gly Pro Thr Phe Ala Arg Ser Pro Pro Leu	275	280	285
Cys Thr Glu Leu Ser Arg Ser Ser Ser Ser Thr Ser Lys Leu Pro Leu	290	295	300
Lys Tyr Asp Xaa			
305			

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<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (574)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (579)
<223> Xaa equals stop translation
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400> 61																	
Met	Arg	Ala	Ala	Arg	Ala	Ala	Pro	Leu	Leu	Gln	Leu	Leu	Leu	Leu	Leu	Leu	Leu
1				5					10							15	
Gly	Pro	Trp	Leu	Glu	Ala	Ala	Gly	Val	Ala	Glu	Ser	Pro	Leu	Pro	Ala		
			20					25						30			
Val	Val	Leu	Ala	Ile	Leu	Ala	Arg	Asn	Ala	Glu	His	Ser	Leu	Pro	His		
		35						40					45				
Tyr	Leu	Gly	Ala	Leu	Glu	Arg	Leu	Asp	Tyr	Pro	Arg	Ala	Arg	Met	Xaa		
	50						55				60						
Leu	Trp	Cys	Ala	Thr	Asp	His	Asn	Val	Asp	Asn	Thr	Thr	Glu	Met	Leu		
	65				70					75					80		
Gln	Glu	Trp	Leu	Ala	Ala	Val	Gly	Asp	Asp	Tyr	Ala	Ala	Val	Val	Trp		
			85						90					95			
Arg	Pro	Glu	Gly	Glu	Pro	Arg	Phe	Tyr	Pro	Asp	Glu	Glu	Gly	Pro	Lys		
			100					105					110				
His	Trp	Thr	Lys	Glu	Arg	His	Gln	Phe	Leu	Met	Glu	Leu	Lys	Gln	Glu		
		115						120				125					
Ala	Leu	Thr	Phe	Ala	Arg	Asn	Trp	Gly	Ala	Asp	Tyr	Ile	Leu	Phe	Ala		
	130					135					140						
Asp	Thr	Asp	Asn	Ile	Leu	Thr	Asn	Asn	Gln	Thr	Leu	Arg	Leu	Leu	Met		
	145				150						155				160		
Gly	Gln	Gly	Leu	Pro	Val	Val	Ala	Pro	Met	Leu	Asp	Ser	Gln	Thr	Tyr		
			165					170						175			
Tyr	Ser	Asn	Phe	Trp	Cys	Gly	Ile	Thr	Pro	Gln	Gly	Tyr	Tyr	Arg	Arg		
			180					185					190				

Thr Ala Glu Tyr Phe Pro Thr Lys Asn Arg Gln Arg Arg Gly Cys Phe
 195 200 205
 Arg Val Pro Met Val His Ser Thr Phe Leu Ala Ser Leu Arg Ala Glu
 210 215 220
 Gly Ala Asp Gln Leu Ala Phe Tyr Pro Pro His Pro Asn Tyr Thr Trp
 225 230 235 240
 Pro Phe Asp Asp Ile Ile Val Phe Ala Tyr Ala Cys Gln Ala Ala Gly
 245 250 255
 Val Ser Val His Val Cys Asn Glu His Arg Tyr Gly Tyr Met Asn Val
 260 265 270
 Pro Val Lys Ser His Gln Gly Leu Glu Asp Glu Arg Val Asn Phe Ile
 275 280 285
 His Leu Ile Leu.Glu Ala Leu Val Asp Gly Pro Arg Met Gln Ala Ser
 290 295 300
 Ala His Val Thr Arg Pro Ser Lys Arg Pro Ser Lys Ile Gly Phe Asp
 305 310 315 320
 Glu Val Phe Val Ile Ser Leu Ala Arg Arg Pro Asp Arg Arg Glu Arg
 325 330 335
 Met Leu Ala Ser Leu Trp Glu Met Glu Ile Ser Gly Arg Val Val Asp
 340 345 350
 Ala Val Asp Gly Trp Met Leu Asn Ser Ser Ala Ile Arg Asn Leu Gly
 355 360 365
 Val Asp Leu Leu Pro Gly Tyr Gln Asp Pro Tyr Ser Gly Arg Thr Leu
 370 375 380
 Thr Lys Gly Glu Val Gly Cys Phe Leu Ser His Tyr Ser Ile Trp Glu
 385 390 395 400
 Glu Val Val Ala Arg Gly Leu Ala Arg Val Leu Val Phe Glu Asp Asp
 405 410 415
 Val Arg Phe Glu Ser Asn Phe Arg Gly Arg Leu Glu Arg Leu Met Glu
 420 425 430
 Asp Val Glu Ala Glu Lys Leu Ser Trp Asp Leu Ile Tyr Leu Gly Arg
 435 440 445
 Lys Gln Val Asn Pro Glu Lys Glu Thr Ala Val Glu Gly Leu Pro Gly
 450 455 460
 Leu Val Val Ala Gly Tyr Ser Tyr Trp Thr Leu Ala Tyr Ala Leu Arg
 465 470 475 480
 Leu Ala Gly Ala Arg Lys Leu Leu Ala Ser Gln Pro Leu Arg Arg Met
 485 490 495

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1052546 02502

Pro Arg Glu Pro Tyr Cys Val Met
180

<210> 63
<211> 306
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (306)
<223> Xaa equals stop translation

<400> 63
Met Gly Ile Leu Leu Gly Leu Leu Leu Leu Gly His Leu Thr Val Asp
1 5 10 15
Thr Tyr Gly Arg Pro Ile Leu Glu Val Pro Glu Ser Val Thr Gly Pro
20 25 30
Trp Lys Gly Asp Val Asn Leu Pro Cys Thr Tyr Asp Pro Leu Gln Gly
35 40 45
Tyr Thr Gln Val Leu Val Lys Trp Leu Val Gln Arg Gly Ser Asp Pro
50 55 60
Val Thr Ile Phe Leu Arg Asp Ser Ser Gly Asp His Ile Gln Gln Ala
65 70 75 80
Lys Tyr Gln Gly Arg Leu His Val Ser His Lys Val Pro Gly Asp Val
85 90 95
Ser Leu Gln Leu Ser Thr Leu Glu Met Asp Asp Arg Ser His Tyr Thr
100 105 110
Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Val Arg Asp
115 120 125
Lys Ile Thr Glu Leu Arg Val Gln Lys His Ser Ser Lys Leu Leu Lys
130 135 140
Thr Lys Thr Glu Ala Pro Thr Thr Met Thr Tyr Pro Leu Lys Ala Thr
145 150 155 160
Ser Thr Val Lys Gln Ser Trp Asp Trp Thr Thr Asp Met Asp Gly Tyr
165 170 175
Leu Gly Glu Thr Ser Ala Gly Pro Gly Lys Ser Leu Pro Val Phe Ala
180 185 190
Ile Ile Leu Ile Ile Ser Leu Cys Cys Met Val Val Phe Thr Met Ala
195 200 205
Tyr Ile Met Leu Cys Arg Lys Thr Ser Gln Gln Glu His Val Tyr Glu
210 215 220
Ala Ala Arg Ala His Ala Arg Glu Ala Asn Asp Ser Gly Glu Thr Met

225 230 42 235 240
 Arg Val Ala Ile Phe Ala Ser Gly Cys Ser Ser Asp Glu Pro Thr Ser
 245 250 255
 Gln Asn Leu Gly Asn Asn Tyr Ser Asp Glu Pro Cys Ile Gly Gln Glu
 260 265 270
 Tyr Gln Ile Ile Ala Gln Ile Asn Gly Asn Tyr Ala Arg Leu Leu Asp
 275 280 285
 Thr Val Pro Leu Asp Tyr Glu Phe Leu Ala Thr Glu Gly Lys Ser Val
 290 295 300
 Cys Xaa
 305

<210> 64
 <211> 108
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (7)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (95)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (108)
 <223> Xaa equals stop translation

<400> 64
 Met Ala Val Val Leu Ser Xaa Lys Xaa His Arg Gly Xaa Tyr Cys Gly
 1 5 10 15

Arg Thr Ser Leu Leu Ser Leu Leu Ser Cys Leu Leu Leu Leu
 20 25 30

Leu Leu Leu Leu Leu Leu Trp Ser Leu Ser Glu Ile Lys Thr Leu
 35 40 45

225 230 235 240 245 250 255 260 265 270 275 280 285 290 295 300 305

Lys Leu Ile Cys Ile Leu Ser Ala Arg Asp Ala Gly Ser Arg Ala
50 55 60

Lys Ser His Gly Phe Gln Ile Arg Tyr Ser Ala His Ser Phe Gln Gly
65 70 75 80

His Arg Phe Leu Lys Gly Pro Gly Phe Glu Glu Met Ala Asn Xaa Glu
85 90 95

Pro Ser Glu Asn Leu Ile Trp Lys Thr Cys Met Xaa
100 105

<210> 65
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (191)
<223> Xaa equals stop translation

<400> 65
Met Pro Val Pro Thr Leu Cys Leu Leu Trp Ala Leu Ala Met Val Thr
1 5 10 15

Arg Pro Ala Ser Ala Ala Pro Met Xaa Gly Pro Glu Leu Ala Gln His
20 25 30

Glu Glu Leu Thr Leu Leu Phe His Gly Thr Leu Gln Leu Gly Gln Ala
35 40 45

Leu Asn Gly Val Tyr Arg Thr Thr Glu Gly Arg Leu Thr Lys Ala Arg
50 55 60

Asn Ser Leu Gly Leu Tyr Gly Arg Thr Ile Glu Leu Leu Gly Gln Glu
65 70 75 80

Val Ser Arg Gly Arg Asp Ala Ala Gln Glu Leu Arg Ala Ser Leu Leu
85 90 95

Glu Thr Gln Met Glu Glu Asp Ile Leu Gln Leu Gln Ala Glu Ala Thr
100 105 110

Ala Glu Val Leu Gly Glu Val Ala Gln Ala Gln Lys Val Leu Arg Asp
115 120 125

Ser Val Gln Arg Leu Glu Val Gln Leu Arg Ser Ala Trp Leu Gly Pro
130 135 140

Ala Tyr Arg Glu Phe Glu Val Leu Lys Ala His Ala Asp Lys Gln Glu
145 150 155 160

Pro Thr Ser Tyr Gly Pro His Arg Pro Arg Gln Arg Gln Arg Arg Glu
165 170 175

Met Val Ala Gln Gln His Arg Leu Arg Gln Ile Gln Glu Arg Xaa
180 185 190

<210> 66
<211> 200
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (120)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (200)
<223> Xaa equals stop translation

<400> 66
Met Thr Ser Cys Gly Gln Gln Ser Leu Asn Val Leu Ala Val Leu Phe
1 5 10 15

Ser Leu Leu Phe Ser Ala Val Leu Ser Ala His Phe Arg Val Cys Glu
20 25 30

Pro Tyr Thr Asp His Lys Gly Arg Tyr His Phe Gly Phe His Cys Pro
35 40 45

Arg Leu Ser Asp Asn Lys Thr Phe Ile Leu Cys Cys His His Asn Asn
50 55 60

Thr Val Phe Lys Tyr Cys Cys Asn Glu Thr Glu Phe Gln Ala Val Met
65 70 75 80

Gln Ala Asn Leu Thr Ala Ser Ser Glu Gly Tyr Met His Asn Asn Tyr
85 90 95

Thr Ala Leu Leu Gly Val Trp Ile Tyr Gly Phe Phe Val Leu Met Leu
100 105 110

Leu Val Leu Asp Leu Xaa Tyr Xaa Ser Ala Met Asn Tyr Asp Ile Cys
115 120 125

Lys Val Tyr Leu Ala Arg Trp Gly Ile Gln Gly Arg Trp Met Lys Gln
130 135 140

Asp Pro Arg Arg Trp Gly Asn Pro Ala Arg Ala Pro Arg Pro Gly Gln
145 150 155 160

Arg Ala Pro Gln Pro Gln Pro Pro Pro Gly Pro Leu Pro Gln Ala Pro
 165 170 175

Gln Ala Val His Thr Leu Arg Gly Asp Ala His Ser Pro Pro Leu Met
 180 185 190

Thr Phe Gln Ser Ser Ser Ala Xaa
 195 200

<210> 67
 <211> 62
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (62)
 <223> Xaa equals stop translation

<400> 67
 Met Leu Leu Ser Ser Leu Ile Gly Trp Cys Ser Phe Val Glu Pro Val
 1 5 10 15

Leu Ile Phe Phe Phe Leu Thr Ile Leu Ile Arg Leu Leu Glu Gln Ser
 20 25 30

Asn Trp Gly Ile Glu Glu Met Lys Thr Gly Tyr Phe Cys Ile Cys Glu
 35 40 45

Val Gly Thr Gly Asn Ile Trp Thr Cys Ser Ser Tyr Ser Xaa
 50 55 60

<210> 68
 <211> 608
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (242)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (608)
 <223> Xaa equals stop translation

<400> 68
 Met Arg Thr Pro Gln Leu Ala Leu Leu Gln Val Phe Phe Leu Val Phe
 1 5 10 15

Pro Asp Gly Val Arg Pro Gln Pro Ser Ser Ser Pro Ser Gly Ala Val
 20 25 30

Pro Thr Ser Leu Glu Leu Gln Arg Gly Thr Asp Gly Gly Thr Leu Gln

45

Gln Lys Val Ser Val Ser Leu Gly Gln Thr Asn Leu Thr Val Glu Pro
340 345 350

Gly Ala Ser Leu Gln Gln His Phe Ile Leu Arg Phe Arg Ala Phe Gln
 355 360 365
 Gln Ser Thr Ala Ala Ser Leu Thr Ser Pro Arg Ser Gly Asn Pro Gly
 370 375 380
 Tyr Ile Val Gly Lys Pro Leu Leu Ala Leu Thr Asp Asp Ile Ser Tyr
 385 390 395 400
 Ser Met Thr Leu Leu Gln Ser Gln Gly Asn Gly Ser Cys Ser Val Lys
 405 410 415
 Arg His Glu Val Gln Phe Gly Val Asn Ala Ile Ser Gly Cys Lys Leu
 420 425 430
 Arg Leu Lys Lys Ala Asp Cys Ser His Leu Gln Gln Glu Ile Tyr Gln
 435 440 445
 Thr Leu His Gly Arg Pro Arg Pro Glu Tyr Val Ala Ile Phe Gly Asn
 450 455 460
 Ala Asp Pro Ala Gln Lys Gly Gly Trp Thr Arg Ile Leu Asn Arg His
 465 470 475 480
 Cys Ser Ile Ser Ala Ile Asn Cys Thr Ser Cys Cys Leu Ile Pro Val
 485 490 495
 Ser Leu Glu Ile Gln Val Leu Trp Ala Tyr Val Gly Leu Leu Ser Asn
 500 505 510
 Pro Gln Ala His Val Ser Gly Val Arg Phe Leu Tyr Gln Cys Gln Ser
 515 520 525
 Ile Gln Asp Ser Gln Gln Val Thr Glu Val Ser Leu Thr Thr Leu Val
 530 535 540
 Asn Phe Val Asp Ile Thr Gln Lys Pro Gln Pro Pro Arg Gly Gln Pro
 545 550 555 560
 Lys Met Asp Trp Lys Trp Pro Phe Asp Phe Phe Pro Phe Lys Val Ala
 565 570 575
 Phe Ser Arg Gly Val Phe Ser Gln Lys Cys Ser Val Ser Pro Ile Leu
 580 585 590
 Ile Leu Cys Leu Leu Leu Leu Gly Val Leu Asn Leu Glu Thr Met Xaa
 595 600 605

<210> 69

<211> 90

<212> PRT

<213> Homo sapiens

<220>
 <221> SITE
 <222> (90)
 <223> Xaa equals stop translation

<400> 69
 Met Ala Leu Arg Phe Leu Leu Leu Ser Ile Gly Pro Val Pro Ser Leu
 1 5 10 15
 Gly Asn Ile Ala Ala Ala Gly Ser Asp Glu Lys Cys Lys Leu Ala Met
 20 25 30
 Gln Arg Gly Ala Gln Ser Ser Val Asn Tyr Ser Gln Gly Ser Leu Lys
 35 40 45
 Asp Ala Ala Ser Ala Ser Thr Arg Thr Ala Ser Gly Trp Val Lys Arg
 50 55 60
 Asn Arg Ser Arg Glu Asn Gln Glu Met Leu Ile Tyr Ser Lys Asn Lys
 65 70 75 80
 Ile Pro Ile Trp Lys Ile Ser Lys Lys Xaa
 85 90

<210> 70
 <211> 117
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (117)
 <223> Xaa equals stop translation

<400> 70
 Met Ala Gly Leu Ile Phe Val Leu His Ser Cys Phe Arg Phe Ile Thr
 1 5 10 15
 Phe Val Cys Pro Thr Ser Ser Asp Pro Leu Arg Thr Cys Ala Val Leu
 20 25 30
 Leu Cys Val Gly Tyr Gln Asp Leu Pro Asn Pro Val Phe Arg Tyr Leu
 35 40 45
 Gln Ser Val Asn Glu Leu Leu Ser Thr Leu Leu Asn Ser Asp Ser Pro
 50 55 60
 Gln Gln Val Leu Gln Phe Val Pro Met Glu Val Leu Leu Lys Gly Ala
 65 70 75 80
 Leu Leu Asp Phe Leu Trp Asp Leu Asn Ala Ala Ile Ala Lys Arg His
 85 90 95
 Leu His Phe Ile Ile Gln Arg Glu Arg Glu Glu Ile Ile Asn Ser Leu
 100 105 110
 Gln Leu Gln Asn Xaa

<210> 71
 <211> 140
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (140)
 <223> Xaa equals stop translation

<400> 71
 Met Cys Val Trp Gly Val Cys Val Cys Val Val Ala Arg Val Cys Val
 1 5 10 15
 Trp Leu Gly Leu Ala Glu Leu Phe Arg Gly Arg Val Arg Asp Cys Gly
 20 25 30
 Lys Ile Thr His Phe Pro Thr Tyr Leu Leu Tyr Trp Thr Leu Lys Asn
 35 40 45
 Asn Asn Lys His Gln Val Lys Phe Leu Asn His Val Leu Cys Val Cys
 50 55 60
 Val Cys Val Cys Val Cys Val Cys Ile Cys Lys Cys Ile Cys Ile Cys
 65 70 75 80
 Met Leu Leu Tyr Phe Gln Val Asn Asn Tyr Ile Glu Asp Cys Ile Ala
 85 90 95
 Gln Lys His Ser Leu Ile Lys Val Leu Arg Leu Val Cys Leu Gln Ser
 100 105 110
 Val Cys Asn Ser Gly Leu Lys Gln Lys Val Leu Asp Tyr Tyr Lys Arg
 115 120 125
 Glu Ile Leu Gln Val Ser Ile Phe Leu Asn Tyr Xaa
 130 135 140

<210> 72
 <211> 96
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (96)
 <223> Xaa equals stop translation

<400> 72
 Met His Leu Cys Ile Cys Ala Val Trp Val Leu Val Ala Leu Leu Arg
 1 5 10 15
 Met His Gly Ala Ser Pro Ala Gln Thr Ser Gly Thr Arg Ser Gly Asn
 20 25 30

Gly Gly Cys Arg Arg His Gly Ala Gly Gln Gly Arg Gly Ala Ala Thr
 35 40 45

Gln Pro Leu Arg Pro Pro Arg Gly Thr Ala Ser Gly Gln Leu Met Ala
 50 55 60

Leu Leu Ser Ala Leu Leu Pro Arg Leu Ser Gly Ser Ser Thr Pro Met
 65 70 75 80

Met Ala His Gly Arg Pro Ala Pro Pro Gln Trp Ser Arg Val Ser Xaa
 85 90 95

<210> 73
 <211> 78
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (78)
 <223> Xaa equals stop translation

<400> 73
 Met Ser Leu Tyr Lys Ile His Leu Leu Tyr Val Ala Val Leu Ser
 1 5 10 15

Ser Val Ala Ser Ser Tyr Pro Glu Ala Gln His Met Ser Pro Gly Gln
 20 25 30

Val Pro Lys Phe Gln Ala Val Leu Ser Val Lys Ala Gly Val Cys Met
 35 40 45

Cys Tyr Gln His Met Ile Arg Gly Arg Pro Thr Gln Gly Ala Val Ser
 50 55 60

Val Ala Gln Gln Ser Thr Thr Phe Thr Val Ala Tyr Phe Xaa
 65 70 75

<210> 74
 <211> 55
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (55)
 <223> Xaa equals stop translation

<400> 74
 Met Ala Val Arg Leu Ile Lys Pro Ala Val Phe Ala Val Leu Ala Gly
 1 5 10 15

Pro Ser Met Ile Arg Thr Xaa
50 55

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<210> 75
<211> 210
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (181)
<223> Xaa equals any of the naturally occurring L-amino acids
```

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<220>
<221> SITE
<222> (200)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>  
<221> SITE  
<222> (207)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>  
<221> SITE  
<222> (210)  
<223> Xaa equals stop translation
```

<400> 75
Met Tyr Phe Leu Phe Phe Phe Ala Phe Phe Phe Phe Pro Leu Phe Cys
1 5 10 15

Tyr Cys Phe Asn Tyr Asn Lys Arg Ala Arg Gly Ser Gln Ala Leu Ala
20 25 30

Arg Ser Trp Arg Pro Met Gly Val Leu Gly Arg Gly Arg Gly Glu Val
35 40 45

Ser Gly Gly Gln Arg Trp Arg Val Lys Asn Glu Lys Val Gly Glu Leu
50 55 60

Gly Leu Ala Gln Glu Pro Cys Val Pro Ala His Ser Pro Pro Ser Leu
65 70 75 80

Pro Leu Pro Thr Ser Leu Pro Leu His Gly Phe Ser Pro Pro Leu Pro
85 90 95

Glu Ser Tyr Gly Thr Gly Pro Cys Ser Ser Gly Ile Gln Leu Leu Pro
100 105 110

Ala His Ser Ser Ser Trp Ala Thr Ser Pro Pro Thr Phe Asp Val Ser

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115 120 125

Pro Pro Val Ala Thr Leu Gln Leu Ala Phe Gln Ala Pro Ser Arg Gly
130 135 140

Arg Pro Leu Pro Arg Pro Leu Thr His Val Ala Ile Pro Thr Trp Leu
145 150 155 160

Pro Val Met Ser Leu Leu Ser Lys Pro Ser Cys Pro Leu Phe Leu Pro
165 170 175

Pro Arg His Ala Xaa Thr Lys Trp Trp Lys Pro Pro Leu Ser Pro Ser
180 185 190

Leu Pro Cys Ala Glu Phe Ser Xaa Val Leu Asn Glu Gly Glu Xaa Asp
195 200 205

Lys Xaa
210

<210> 76
<211> 105
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (89)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (105)
<223> Xaa equals stop translation

<400> 76
Met Pro Thr Ser Ser Tyr Arg Ser Val Trp Pro Leu Thr Leu Leu Ala
1 5 10 15

Leu Lys Ser Thr Ala Cys Ala Leu Ala Phe Thr Arg Met Pro Gly Phe
20 25 30

Gln Thr Pro Ser Glu Phe Leu Glu Asn Pro Ser Gln Ser Ser Arg Leu
35 40 45

Thr Ala Pro Phe Arg Lys His Val Arg Pro Lys Lys Gln His Glu Ile
50 55 60

Arg Arg Leu Gly Glu Leu Val Lys Lys Pro Ser Asp Phe Thr Gly Cys
65 70 75 80

Thr Gln Val Val Asp Val Gly Ser Xaa Gln Gly His Leu Ser Arg Phe
85 90 95

Met Ala Leu Gly Leu Gly Leu Met Xaa
100 105

<210> 77
 <211> 176
 <212> PRT
 <213> Homo sapiens

<400> 77
 Met Leu Leu Leu Met Leu Val Asn Thr Ser Ala Val Ala Cys Thr His
 1 5 10 15
 Gly Gly Arg Gly Pro Trp Gly Asn Ser Ala Ala Gln Ala Cys Ala Ala
 20 25 30
 Leu Ala Pro Trp Pro Arg Gln Asp Pro Ser Ala Ala Ser Gln Trp Gln
 35 40 45
 Pro Gln Val Leu Val Gly Leu Ser Tyr His Gly Trp Gly Gly Gln
 50 55 60
 Arg Leu Ser Pro-Cys Pro Arg Ser Ile Cys Cys Val Ser Thr Arg His
 65 70 75 80
 Leu Glu Gly Ala Arg Ser Lys Ala Gln Gly Pro Ala Ala Trp Leu His
 85 90 95
 Met Glu Val Arg Val Pro Arg Val Gln Pro Pro Ala Leu Gln Val Pro
 100 105 110
 Ser Ser Ser Asp Lys Ala Gly Gln Gly Arg Trp Gly Val Pro Gly Gln
 115 120 125
 Arg Gly Leu Val Gly Arg Gly Gly Cys Lys Val Thr Pro Ser Leu
 130 135 140
 Pro Cys Arg Arg Thr Glu Arg Lys Arg Thr Ala Ala Ser Ala Lys Val
 145 150 155 160
 Thr Cys Pro Ala Ser Ser Arg Arg Pro Trp Gly Trp Gln Ser Ser Pro
 165 170 175

<210> 78
 <211> 45
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals stop translation

<400> 78
 Met His Lys Asn Asn Leu Phe Leu Cys Val Leu Phe Arg Leu Leu Phe
 1 5 10 15

Arg Cys Ser Cys Phe Asn Leu Leu Asn Phe Pro Gln Thr Tyr Ala Val
 20 25 30

Gly Lys Gly Gln Ala Gly Lys Asp Gln Cys Ser Ser Xaa
 35 40 45

<210> 79
 <211> 71
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals stop translation

<400> 79
 Met Asp Ser Val Thr Ala Gly Leu Phe Met Leu Ser Phe Leu Leu Tyr
 1 5 10 15

Leu Pro Ser Ser Ala Phe Ser Gly His Trp Tyr Pro Tyr Pro Gly Val
 20 25 30

Val Ser Trp Ser Asn Ser Cys Leu Ala Gly Leu Asn Cys Gly Val Ser
 35 40 45

Gly Pro Lys Ala Ile Gly Thr Ser Val Val Tyr Phe Leu Ile Pro Ile
 50 55 60

Leu Trp Arg Phe Val Phe Xaa
 65 70

<210> 80
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 80
 Met Cys Leu Ala Phe Ser Val Ile Ile Leu Ala Gly Ala Gly Ser Ser
 1 5 10 15

Arg Ser Trp Asn Ser Val Leu Val Glu Lys Glu Val Val Glu Gly Gly
 20 25 30

Leu Gly Pro Trp Gly Asn Cys Ser Ala Glu Pro Leu Pro His Leu Leu
 35 40 45

Leu Pro Arg Thr Asn Leu Lys Gly
 50 55

<210> 81
 <211> 49
 <212> PRT
 <213> Homo sapiens

20250323001

<220>
 <221> SITE
 <222> (49)
 <223> Xaa equals stop translation

<400> 81
 Met Cys His Phe Ser Ala Leu Ser Phe Thr Phe Cys Val Leu Pro Leu
 1 5 10 15
 Ala Phe Ser Phe Leu Gln Lys His Cys Tyr Phe Thr His Lys Phe Gly
 20 25 30
 Gln Asn Val Gln Tyr Ser His Phe Arg Val Ser Phe Gln Trp Lys Lys
 35 40 45

Xaa

<210> 82
 <211> 46
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals stop translation

<400> 82
 Met Leu Val Ser Leu Ile Ile Cys Leu Leu Leu Asp Leu Leu Asn Gln
 1 5 10 15
 Pro Ser Leu Leu Arg Asp Leu Ile Leu Lys Gln His Thr Gly Asn Pro
 20 25 30
 His Leu Ser Phe Pro Leu Lys Tyr Ser His Trp Met Gly Xaa
 35 40 45

<210> 83
 <211> 91
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (91)
 <223> Xaa equals stop translation

<400> 83
 Met Ala Ile Arg Leu Val Phe Leu Ala Leu Ala Gly Leu Val Asp Gly
 1 5 10 15
 Lys Pro Val Trp Ile Thr Leu Trp Met Asp Ala Lys Arg Pro Asn Leu
 20 25 30
 Ala Gly Thr Gly Ser Thr Trp Gly Ser Arg Arg Asp Ser His Cys Cys

<210> 85
 <211> 45
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals stop translation

<400> 85
 Met Gln Cys Asp Thr Phe Ser Lys Ala Thr Cys Cys Lys Ile Leu Leu
 1 5 10 15
 Leu Ser Cys Cys Val Leu Tyr Leu Val Phe Ser Arg Leu Arg Gly Leu
 20 25 30
 Asp Gln Arg Ser Lys Arg Tyr Ser Leu Pro Asp His Xaa
 35 40 45

<210> 86
 <211> 67
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (67)
 <223> Xaa equals stop translation

<400> 86
 Met Asn Tyr Ile Phe Leu Leu Met Ala Leu Pro His Leu Ile Ala Ile
 1 5 10 15
 Ala Leu Thr Trp Gly Arg Tyr Ser Phe Ser Cys Leu Ala Asn Lys Glu
 20 25 30
 Thr Glu Phe Gln Arg Cys Gln Val Thr Cys Leu Leu His Thr Leu Gly
 35 40 45

Val Leu Met Phe Asn Phe Glu Leu Arg Ser Ile Trp Leu Glu Ser Ser
 50 55 60
 Leu His Xaa
 65

<210> 87
 <211> 72
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (72)

<400> 87

Tyr Phe Asn Val Leu Val Ala His Leu Met Asn Val Asn Leu Lys Asn
20 25 30

Ser Val Gln Leu Ser Arg Tyr Asn Ser Ala Lys Gln Ile Leu Lys Leu
35 40 45

His Ile Thr Leu Gln His Met Val Pro His Thr Leu Ile Val Ala Phe
50 55 60

Tyr Ile Phe Ser Tyr Tyr Tyr Xaa
65 70

<210> 88

<211> 212

<212> PRT

<213> Homo sapiens

<400> 88

Met Lys Thr Leu Pro Ala Met Leu Gly Thr Gly Lys Leu Phe Trp Val
1 5 10 15

Phe Phe Leu Ile Pro Tyr Leu Asp Ile Trp Asn Ile His Gly Lys Glu
20 25 30

Ser Cys Asp Val Gln Leu Tyr Ile Lys Arg Gln Ser Glu His Ser Ile
35 40 45

Leu Ala Gly Asp Pro Phe Glu Leu Glu Cys Pro Val Lys Tyr Cys Ala
50 55 60

Asn Arg Pro His Val Thr Trp Cys Lys Leu Asn Gly Thr Thr Cys Val
65 70 75 80

Lys Leu Glu Asp Arg Gln Thr Ser Trp Lys Glu Glu Lys Asn Ile Ser
85 90 95

Phe Phe Ile Leu His Phe Glu Pro Val Leu Pro Asn Asp Asn Gly Ser
100 105 110

Tyr Arg Cys Ser Ala Asn Phe Gln Ser Asn Leu Ile Glu Ser His Ser
115 120 125

Thr Thr Leu Tyr Val Thr Gly Glu Phe Ser Thr Pro Arg Pro Ser Asp
130 135 140

Ile Phe Leu Ile Met Phe Pro Gly Arg Gly Gly Phe Ser Phe Ser Ser
145 150 155 160

Asp Tyr Val Arg Lys Pro Thr Pro Ile Ala His Leu Lys Ser Ala Thr
165 170 175

Pro His Arg Leu Leu Cys Ala Ser Val Tyr Ile Cys Val Cys Met Cys
180 185 190

Ala Phe Glu Val Ser Glu Ile Glu Glu Ser Arg Glu Ile Asp Ser Lys
195 200 205

Ser Tyr Cys Phe
210

<210> 89
<211> 111
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (111)
<223> Xaa equals stop translation

<400> 89
Met Thr Val Ser Tyr Phe Trp Trp Leu Arg Val Gly Ala Trp Ala Glu
1 5 10 15

Asp Val Glu Ala Leu Ala Ser Leu Pro Glu Asp Arg Leu Arg Trp Asn
20 25 30

Leu Leu Ala Leu Pro Ala Ser Pro Cys Ala Val Thr Ala Leu Val Ala
35 40 45

Arg His Arg Arg Ala Gly Leu Gln Arg Ser Ile Gln Cys Leu Leu Gly
50 55 60

Arg Gln Gly Gly Gly Gly Cys Asn Cys Glu Leu Thr Lys Pro Gln Val
65 70 75 80

Gly Ser Lys Trp Val Gly His Arg Lys Lys Ser Asp Leu Gln Ser Gly
85 90 95

Asp Leu Gly Ser Gly Leu Cys Leu Met Thr Gly Ser Val Met Xaa
100 105 110

<210> 90
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (42)
<223> Xaa equals stop translation

<400> 90
Met Val Lys Val Gly Ala Trp Arg Ala Val Gln Ile Leu Met Leu Phe
1 5 10 15

Ala Asn Pro Gly His Ala Glu Gly Ala Cys Ile Ser Pro Gly Pro Ala

20

25

60

30

Gly Lys Arg Glu Pro Leu Lys Leu Gly Xaa
35 40

<210> 91

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals stop translation

<400> 91

Met Val Ala Thr Leu Cys Leu Glu Asn Ser Ser Val Ser Leu Trp Phe
1 5 10 15

Ile Phe Leu Ser Ser Leu Ser Ser Phe Pro Trp Cys Gly Ala Leu Ser
20 25 30

Asp Asn Trp Pro Ser Gly Gly Ala Val Ala Arg Cys His Ser Gly Arg
35 40 45

Arg Trp Phe Pro Glu Gly Ser Xaa Cys Leu Xaa
50 55

<210> 92

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals stop translation

<400> 92

Met Phe Cys Ile Gln Gln Lys Trp Leu Phe Ser Phe Leu Phe Tyr Glu
1 5 10 15

Val Gly Leu Met Gly Ile Asp Ser Leu Arg Lys Lys Tyr Asn Cys Lys
20 25 30

Ser Val Glu Val Phe Pro Ser Gln Asp Val Lys Cys Gln Arg Ser Asp
35 40 45

Ser Cys Gly Arg Met Gly Ser Lys Leu Tyr Lys Ser Leu Glu Met Asn
50 55 60

Glu Val Arg Gln Leu Ser Leu Arg Gln Lys Thr Met Xaa
 65 70 75

<210> 93
 <211> 69
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (69)
 <223> Xaa equals stop translation

<400> 93
 Met Ala Lys Leu Met Tyr Tyr Gln Ile Leu Cys Leu Val Val Phe Cys
 1 5 10 15

Trp Leu Ile His Ser Phe Ile His Leu Phe Asn Lys His Phe Leu Ile
 20 25 30

Ala Phe Tyr Val Pro Gly Pro Ala Ile Asp Ala Arg Asp Ser Ala Val
 35 40 45

Ser Thr Thr Asp Lys Glu Phe Cys His Cys Gly Val Tyr Ile Leu Val
 50 55 60

Ala Gly Asp Arg Xaa
 65

<210> 94
 <211> 44
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (44)
 <223> Xaa equals stop translation

<400> 94
 Met Glu Thr Thr Gly Ser Trp Thr Cys Leu Phe Asn Leu Val Ala Ile
 1 5 10 15

Ile Ser Asn Leu Gly Leu Cys Thr Phe Leu Val Phe Gly Glu Ala Gln
 20 25 30

Arg Val Asp Leu Ser Ser Thr His Glu Asp Leu Xaa
 35 40

<210> 95
 <211> 47
 <212> PRT
 <213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals stop translation

<400> 95

Met Lys Ala Gln Met Leu Leu Ser Leu Ala Trp Pro Leu Pro Leu Ser
 1 5 10 15

Thr Ala Asn Ser Cys Leu Pro Gln Phe Pro Arg Gly Leu Tyr Ser Ala
 20 25 30

His Tyr Cys Pro Ser Cys Leu Leu Phe Leu Glu Ala Leu Ser Xaa
 35 40 45

<210> 96

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals stop translation

<400> 96

Met Cys Leu Leu Ser Phe Asn Cys Lys Ala Val Leu Ser Leu Ser Leu
 1 5 10 15

Ile Ser Leu Ser Phe Leu Cys Cys Leu Glu Leu Cys Leu Ala Arg Cys
 20 25 30

Gly Gly Arg Arg Asn Val Ser Ala Pro Leu Lys Met Phe Ile Ile Xaa
 35 40 45

<210> 97

<211> 450

<212> PRT

<213> Homo sapiens

<400> 97

Met Leu Val Thr Ala Tyr Leu Ala Phe Val Gly Leu Leu Ala Ser Cys
 1 5 10 15

Leu Gly Leu Glu Leu Ser Arg Cys Arg Ala Lys Pro Pro Gly Arg Ala
 20 25 30

Cys Ser Asn Pro Ser Phe Leu Arg Phe Gln Leu Asp Phe Tyr Gln Val
 35 40 45

Tyr Phe Leu Ala Leu Ala Ala Asp Trp Leu Gln Ala Pro Tyr Leu Tyr
 50 55 60

Lys Leu Tyr Gln His Tyr Tyr Phe Leu Glu Gly Gln Ile Ala Ile Leu

65

70

63

75

80

Tyr Val Cys Gly Leu Ala Ser Thr Val Leu Phe Gly Leu Val Ala Ser
85 90 95

Ser Leu Val Asp Trp Leu Gly Arg Lys Asn Ser Cys Val Leu Phe Ser
100 105 110

Leu Thr Tyr Ser Leu Cys Cys Leu Thr Lys Leu Ser Gln Asp Tyr Phe
115 120 125

Val Leu Leu Val Gly Arg Ala Leu Gly Gly Leu Ser Thr Ala Leu Leu
130 135 140

Phe Ser Ala Phe Glu Ala Trp Tyr Ile His Glu His Val Glu Arg His
145 150 155 160

Asp Phe Pro Ala Glu Trp Ile Pro Ala Thr Phe Ala Arg Ala Ala Phe
165 170 175

Trp Asn His Val Leu Ala Val Val Ala Gly Val Ala Ala Glu Ala Val
180 185 190

Ala Ser Trp Ile Gly Leu Gly Pro Val Ala Pro Phe Val Ala Ala Ile
195 200 205

Pro Leu Leu Ala Leu Ala Gly Ala Leu Ala Leu Arg Asn Trp Gly Glu
210 215 220

Asn Tyr Asp Arg Gln Arg Ala Phe Ser Arg Thr Cys Ala Gly Gly Leu
225 230 235 240

Arg Cys Leu Leu Ser Asp Arg Arg Val Leu Leu Leu Gly Thr Ile Gln
245 250 255

Ala Leu Phe Glu Ser Val Ile Phe Ile Phe Val Phe Leu Trp Thr Pro
260 265 270

Val Leu Asp Pro His Gly Ala Pro Leu Gly Ile Ile Phe Ser Ser Phe
275 280 285

Met Ala Ala Ser Leu Leu Gly Ser Ser Leu Tyr Arg Ile Ala Thr Ser
290 295 300

Lys Arg Tyr His Leu Gln Pro Met His Leu Leu Ser Leu Ala Val Leu
305 310 315 320

Ile Val Val Phe Ser Leu Phe Met Leu Thr Phe Ser Thr Ser Pro Gly
325 330 335

Gln Glu Ser Pro Val Glu Ser Phe Ile Ala Phe Leu Leu Ile Glu Leu
340 345 350

Ala Cys Gly Leu Tyr Phe Pro Ser Met Ser Phe Leu Arg Arg Lys Val
355 360 365

Ile Pro Glu Thr Glu Gln Ala Gly Val Leu Asn Trp Phe Arg Val Pro
370 375 380

Leu His Ser Leu Ala Cys Leu Gly Leu Leu Val Leu His Asp Ser Asp
385 390 395 400

Arg Lys Thr Gly Thr Arg Asn Met Phe Ser Ile Cys Ser Ala Val Met
405 410 415

Val Met Ala Leu Leu Ala Val Val Gly Leu Phe Thr Val Val Arg His
420 425 430

Asp Ala Glu Leu Arg Val Pro Ser Pro Thr Glu Glu Pro Tyr Ala Pro
435 440 445

Glu Leu
450

<210> 98

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals stop translation

<400> 98

Met Gln Ala His Pro Ile Phe Ile Tyr His Lys Arg Val Phe Phe Leu
1 5 10 15

Leu Lys Phe Ile Phe Tyr Ile Ile Phe Cys Phe Phe Phe Leu Asp Ile
20 25 30

Ser Thr Leu Tyr Cys Ser Leu Ser Thr Phe Cys Lys Lys Xaa
35 40 45

<210> 99

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals stop translation

<400> 99

Met Gly Val Leu Leu Leu Phe Ser Phe Phe Phe Pro Asn Gly Ser Phe
1 5 10 15

Ser Pro Val Val Leu Pro Ser Tyr Phe Pro Asn Ser Ser Ser Tyr Phe
20 25 30

Val Phe Cys Thr Ser Phe Trp Arg Pro Leu Ser Phe Gln Lys Gly Xaa
35 40 45

<210> 100
 <211> 51
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals stop translation

<400> 100
 Met Arg Arg Cys Phe Leu Val Leu Glu Ile Ser Val Cys Leu Met Val
 1 5 10 15

Ile Ile Val Phe Leu Asp Phe Trp Val Gly Gly Pro Gly Arg Gly Arg
 20 25 30

Leu Arg Asn Lys Ser Val Pro Gln Ile Thr Ser Ile Trp Lys Glu Phe
 35 40 45

Phe Val Xaa
 50

<210> 101
 <211> 41
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals stop translation

<400> 101
 Met Cys Phe Arg Phe Met Met Ile Ile Phe Leu Thr Asn Val Ile Ser
 1 5 10 15

Val Ser Ala Val Ile Phe Lys Leu Arg Glu Arg Asp Ser Ile Arg Phe
 20 25 30

Phe Phe Phe Phe Ile Phe Leu Lys Xaa
 35 40

<210> 102
 <211> 50
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (50)
 <223> Xaa equals stop translation

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<400> 102

Met Gly Phe Ser Ile Ile Phe Arg Pro Glu Ala Ala Arg Pro Glu Val
 1 5 10 15

Arg Leu His Leu Ser Ala Leu Phe Val Leu Leu Ala Thr Leu Gly
 20 25 30

Phe Leu Leu Gly Thr Met Cys Gly Cys Gly Met Cys Glu Gln Lys Gly
 35 40 45

Gly Xaa
 50

<210> 103

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals stop translation

<400> 103

Met Thr Leu Leu Phe Ile Phe Phe Val Asp Cys Phe Ser Thr Pro
 1 5 10 15

Gly Ser Ser Val Phe Asp Thr Gln Glu Val Trp Val Val Val Tyr Ser
 20 25 30

Val Asn Lys Leu Leu Ala Val Gln His Cys Gln Gly Ile Ala Pro Asn
 35 40 45

Val Tyr Ala Leu Ala Val Lys Lys Ser Val Cys Asn Val Ser Glu Trp
 50 55 60

Ser Leu Val Ile Cys His Pro Met Pro Ile Xaa
 65 70 75

<210> 104

<211> 123

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (123)

<223> Xaa equals stop translation

<400> 104

Met Leu Met Leu Ala Val Leu Met Ala Ala Thr His Ala Val Tyr Gly
 1 5 10 15

Lys Leu Leu Leu Phe Glu Tyr Arg His Arg Lys Met Lys Pro Val Gln
 20 25 30

Met Val Pro Ala Ile Ser Gln Asn Trp Thr Phe His Gly Pro Gly Ala
 35 40 45

Thr Gly Gln Ala Ala Ala Asn Trp Ile Ala Gly Phe Gly Arg Gly Pro
 50 55 60

Cys His Gln Pro Cys Trp Val Ser Gly Arg Met Gly Met Gln Pro Ala
 65 70 75 80

Gly Gly Tyr Trp Ala Trp Thr Arg Ser Arg Val Lys Ser Ser Trp Ala
 85 90 95

Ala Cys Ser Thr Arg Ser His Cys Ser Phe Cys Ser Ser Gly His Pro
 100 105 110

Thr Ser Trp Pro Ala Thr Gly Glu Cys Leu Xaa
 115 120

<210> 105
 <211> 56
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (56)
 <223> Xaa equals stop translation

<400> 105
 Met Leu Leu Leu Met Leu Val Asn Thr Ser Ala Val Ala Cys Thr His
 1 5 10 15

Gly Gly Arg Gly Pro Trp Gly Asn Ser Ala Ala Gln Ala Cys Ala Ala
 20 25 30

Leu Ala Arg Gly Pro Gly Arg Thr Leu Pro Arg Pro Pro Ser Gly Ser
 35 40 45

His Arg Cys Trp Leu Val Cys Xaa
 50 55

<210> 106
 <211> 61
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (61)
 <223> Xaa equals stop translation

Met Xaa Leu Ala Phe Ser Val Ile Ile Leu Ala Gly Ala Gly Ser Ser
1 5 10 15

Arg Ser Trp Asn Ser Val Leu Val Glu Lys Glu Val Val Glu Gly Gly
20 25 30

Leu Gly Pro Trp Gly Asn Cys Ser Ala Glu Pro Leu Pro His Leu Leu
35 40 45

Leu Pro Arg Thr Asn Leu Lys Ala Lys Val Pro Gly Xaa
50 55 60

<211> 102

<213> Homo sapiens

<221> SITE

<223> Xaa e

<221> SITE

<223> Xaa equals stop translation

Met Lys Thr Leu Pro Ala Met Leu Gly Thr Gly Lys Leu Phe Trp Val
1 5 10 15

Phe Phe Leu Ile Pro Tyr Leu Asp Ile Trp Asn Ile His Gly Lys Glu
20 25 30

Ser Cys Asp Val Gln Leu Tyr Ile Lys Arg Gln Ser Glu His Ser Ile
35 40 45

Leu Ala Gly Asp Pro Phe Glu Leu Glu Cys Pro Val Lys Tyr Cys Ala
50 55 60

Asn	Arg	Pro	His	Val	Thr	Trp	Cys	Lys	Leu	Asn	Gly	Thr	Thr	Cys	Val
65					70					75					80

Lys Leu Glu Asp Arg Gln Thr Ser Trp Lys Lys Arg Arg Thr Phe His
85 90 95

Phe Ser Ser Thr Xaa Xaa
100

<211> 154

<213> Homo sapiens

<220>
 <221> SITE
 <222> (154)
 <223> Xaa equals stop translation

<400> 108

Met Leu Val Thr Ala Tyr Leu Ala Phe Val Gly Leu Leu Ala Ser Cys
 1 5 10 15

Leu Gly Leu Glu Leu Ser Arg Cys Arg Ala Lys Pro Pro Gly Arg Ala
 20 25 30

Cys Ser Asn Pro Ser Phe Leu Arg Phe Gln Leu Asp Phe Tyr Gln Val
 35 40 45

Tyr Phe Leu Ala Leu Ala Ala Asp Trp Leu Gln Ala Pro Tyr Leu Tyr
 50 55 60

Lys Leu Tyr Gln His Tyr Tyr Phe Leu Glu Gly Gln Ile Ala Ile Leu
 65 70 75 80

Tyr Val Cys Gly Leu Ala Ser Thr Val Leu Phe Gly Leu Val Ala Ser
 85 90 95

Ser Leu Val Asp Trp Leu Gly Arg Lys Asn Ser Cys Val Leu Phe Ser
 100 105 110

Leu Thr Tyr Ser Leu Cys Cys Leu Thr Lys Leu Ser Gln Asp Tyr Phe
 115 120 125

Val Leu Leu Val Gly Arg Ala Leu Gly Gly Leu Ser Thr Ala Ala Leu
 130 135 140

Leu Ser Leu Arg Gly Leu Val Tyr Pro Xaa
 145 150

<210> 109
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 109

Val Lys Val Lys Glu Lys Ser Ala Ala Glu Gly Thr Gly Lys Lys Pro
 1 5 10 15

Lys Gly Cys Arg Leu Pro Gly Val Leu Gly Glu Pro Pro Ser Ser Ala
 20 25 30

Gly Pro Arg Lys Gln Arg Arg Thr Val Glu Lys Gly Gly Gly Gln Gly
 35 40 45

Gly Asn Ser Arg Ala Ala Ser
 50 55

<210> 110
 <211> 14

<212> PRT

<213> Homo sapiens

<400> 110

Glu Glu His Arg Tyr Phe Lys Ala Asn Asp Thr Leu Gly Phe
 1 5 10

<210> 111

<211> 14

<212> PRT

<213> Homo sapiens

<400> 111

Gly Thr Ser Gly Thr Ser Gly Thr Arg Trp Asn Val His Phe
 1 5 10

<210> 112

<211> 77

<212> PRT

<213> Homo sapiens

<400> 112

Asp Gly Ala Gly Ala Phe Arg Ala Pro Ile Arg Glu Pro Gly Val Pro
 1 5 10 15

Ala Ser Pro Gln Pro Pro Glu Pro Gly Gln Leu Leu Arg Arg Arg Gln
 20 25 30

Gly His Arg Gly Gly Val Gly Ser Pro Arg Thr Pro Ala Gly Gly Ser
 35 40 45

Arg Gly Arg Arg Leu Pro Ala Thr Lys Arg Gly Thr Ser Gly Arg Arg
 50 55 60

Ala Arg Gly Ser Ser Gly Arg Ile Asn Ala Ser Gln Thr
 65 70 75

<210> 113

<211> 217

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (158)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 113

Gln His Gly Leu Gln Ile Leu Leu Gln Arg Asp Gly Val Pro Gly Gly
1 5 10 15

Asp Ala Gly Glu Pro His Gly Gln Xaa Arg Gly Leu His Ala Gln Gln
20 25 30

Leu His Arg Pro Val Gly Ser Val Asp Leu Trp Ile Phe Arg Val Asp
35 40 45

Ala Ala Gly Ser Gly Pro Xaa Val Xaa Xaa Gly Asn Glu Leu Arg His
50 55 60

Leu Gln Gly Leu Pro Gly Thr Val Gly His Pro Arg Thr Met Asp Glu
65 70 75 80

Thr Gly Pro Pro Ala Val Gly Glu Pro Arg Ser Gly Pro Ser Ala Gly
85 90 95

Ser Ala Gly Pro Thr Ala Ala Ala Ser Pro Arg Pro Ala Ala Thr Ser
100 105 110

Pro Thr Gly Arg Ala His Ile Ala Gly Arg Cys Ser Gln Pro Thr Ala
115 120 125

Asp Asp Xaa Pro Glu Phe Val Cys Leu Lys Thr Leu Leu Leu Cys Leu
130 135 140

Arg Met Gly Glu Met Arg Ser Glu Ala Pro Gly Ala Ala Xaa Glu Lys
145 150 155 160

Asn Asn Phe Tyr Arg Asp Ala Arg Asp Ser Arg Gly Ser Gly Xaa Gly
165 170 175

Thr Gly Gly Asn Ala Ala Cys Ala Gln Ser Pro Leu Pro Arg Thr Ser
180 185 190

Lys Ile Arg Ser Lys Leu Arg Gly Arg Gly Trp Gly Cys Arg Gly Gly
 195 200 205

Asp Ser Glu Pro Pro Val Arg Lys Gln
 210 215

<210> 114
 <211> 49
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (25)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 114
 Gln His Gly Leu-Gln Ile Leu Leu Gln Arg Asp Gly Val Pro Gly Gly
 1 5 10 15

Asp Ala Gly Glu Pro His Gly Gln Xaa Arg Gly Leu His Ala Gln Gln
 20 25 30

Leu His Arg Pro Val Gly Ser Val Asp Leu Trp Ile Phe Arg Val Asp
 35 40 45

Ala

<210> 115
 <211> 48
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (6)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (8)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 115
 Ala Gly Ser Gly Pro Xaa Val Xaa Xaa Gly Asn Glu Leu Arg His Leu
 1 5 10 15

Gln Gly Leu Pro Gly Thr Val Gly His Pro Arg Thr Met Asp Glu Thr
 20 25 30

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<210> 118
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 118
 Ile Arg Ser Lys Leu Arg Gly Arg Gly Trp Gly Cys Arg Gly Gly Asp
 1 5 10 15

Ser Glu Pro Pro Val Arg Lys Gln
 20

<210> 119
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 119
 Gly Thr Ser Pro Glu Ala Tyr Val Gly Pro Gly Gly Pro Glu Cys Pro
 1 5 10 15

<210> 120
 <211> 20
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 120
 Ser Cys Ile His Thr Gly Asp Val Met Ile Xaa Pro Val Leu Ser Cys
 1 5 10 15

Phe Thr Arg Phe
 20

<210> 121
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 121
 Gly Arg His Leu Val Ala Ser Gln Lys Arg Val Leu Arg Asp Arg Arg
 1 5 10 15

Val Gln Thr Gly Ile Trp Ser Asp Gln Leu Tyr Ser Gln Arg Pro Trp
 20 25 30

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Ala Pro Val Thr Trp Pro Asp His Trp Gly Val Cys Val Cys Val Tyr
 35 40 45

Val Cys
 50

<210> 122

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 122

Ala Phe Pro His Ser Ile Pro Cys Gln Val Met Ala Val Pro Ser Pro
 1 5 10 15

Gln Leu Leu Leu Glu Arg Pro Xaa Leu Pro Val Ser Phe Met Phe Leu
 20 25 30

Thr Ser His Pro Pro Pro Arg Leu Val Cys Pro
 35 40

<210> 123

<211> 361

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 123

Leu Pro Thr Leu His Ser Leu Ser Ser Tyr Gly Cys Pro Leu Thr Pro
 1 5 10 15

Ala Ala Pro Arg Glu Ala Leu Xaa Thr Cys Val Ile His Val Ser Asn
 20 25 30

Lys Pro Pro Ser Thr Pro Ser Cys Val Pro His Ala Pro Val His Leu
 35 40 45

Cys Cys Val Gly Val Gly Gly Pro Phe Ala His Ala Trp Gly Ile Pro
 50 55 60

Cys Pro Asp Gln Arg Asp Lys Glu Arg Glu Arg Arg Leu Gln Glu Ala
 65 70 75 80

Arg Gly Arg Pro Gly Glu Gly Arg Gly Asn Thr Ala Thr Glu Thr Thr
 85 90 95

Thr Arg His Ser Gln Arg Ala Ala Asp Gly Ser Ala Val Ser Thr Val
100 105 110

Thr Lys Thr Glu Arg Leu Val His Ser Asn Asp Gly Thr Arg Thr Ala
115 120 125

Arg Thr Thr Thr Val Glu Ser Ser Phe Val Arg Arg Ser Glu Asn Gly
130 135 140

Ser Gly Ser Thr Met Met Gln Thr Lys Thr Phe Ser Ser Ser Ser Ser
145 150 155 160

Ser Lys Lys Met Gly Ser Ile Phe Asp Arg Glu Asp Gln Ala Ser Pro
165 170 175

Arg Ala Gly Ser Leu Ala Ala Leu Glu Lys Arg Gln Ala Glu Lys Lys
180 185 190

Lys Glu Leu Met Lys Ala Gln Ser Leu Pro Lys Thr Ser Ala Ser Gln
195 200 205

Ala Arg Lys Ala Met Ile Glu Lys Leu Glu Lys Glu Gly Ala Ala Gly
210 215 220

Ser Pro Gly Gly Pro Arg Ala Ala Val Gln Arg Ser Thr Ser Phe Gly
225 230 235 240

Val Pro Asn Ala Asn Ser Ile Lys Gln Met Leu Leu Asp Trp Cys Arg
245 250 255

Ala Lys Thr Arg Gly Tyr Glu His Val Asp Ile Gln Asn Phe Ser Ser
260 265 270

Ser Trp Ser Asp Gly Met Ala Phe Cys Ala Leu Val His Asn Phe Phe
275 280 285

Pro Glu Ala Phe Asp Tyr Gly Gln Leu Ser Pro Gln Asn Arg Arg Gln
290 295 300

Asn Phe Glu Val Ala Phe Ser Ser Ala Glu Thr His Ala Asp Cys Pro
305 310 315 320

Gln Leu Leu Asp Thr Glu Asp Met Val Arg Leu Arg Glu Pro Asp Trp
325 330 335

Lys Cys Val Tyr Thr Tyr Ile Gln Glu Phe Tyr Arg Cys Leu Val Gln
340 345 350

Lys Gly Leu Val Lys Thr Lys Lys Ser
355 360

<210> 124

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<222> (24)

<400> 124

Ala Ala Pro Arg Glu Ala Leu Xaa Thr Cys Val Ile His Val Ser Asn
20 25 30

<210> 125

<211> 46

<212> PRT

<213> Homo sapiens

<400> 125

His Leu Cys Cys Val Gly Val Gly Gly Pro Phe Ala His Ala Trp Gly
1 5 10 15

Ile Pro Cys Pro Asp Gln Arg Asp Lys Glu Arg Glu Arg Arg Leu Gln
20 25 30

Glu Ala Arg Gly Arg Pro Gly Glu Gly Arg Gly Asn Thr Ala
35 40 45

<210> 126

<211> 46

<212> PRT

<213> Homo sapiens

<400> 126

Thr Glu Thr Thr Thr Arg His Ser Gln Arg Ala Ala Asp Gly Ser Ala
1 5 10 15

Val Ser Thr Val Thr Lys Thr Glu Arg Leu Val His Ser Asn Asp Gly
20 25 30

Thr Arg Thr Ala Arg Thr Thr Thr Val Glu Ser Ser Phe Val
35 40 45

<210> 127

<211> 46

<212> PRT

<213> Homo sapiens

<400> 127

Arg Arg Ser Glu Asn Gly Ser Gly Ser Thr Met Met Gln Thr Lys Thr
1 5 10 15

Phe Ser Ser Ser Ser Ser Ser Lys Lys Met Gly Ser Ile Phe Asp Arg
20 25 30

Glu Asp Gln Ala Ser Pro Arg Ala Gly Ser Leu Ala Ala Leu
 35 40 45

<210> 128
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 128
 Glu Lys Arg Gln Ala Glu Lys Lys Lys Glu Leu Met Lys Ala Gln Ser
 1 5 10 15

Leu Pro Lys Thr Ser Ala Ser Gln Ala Arg Lys Ala Met Ile Glu Lys
 20 25 30

Leu Glu Lys Glu Gly Ala Ala Gly Ser Pro Gly Gly Pro Arg Ala
 35 40 45

<210> 129
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 129
 Ala Val Gln Arg Ser Thr Ser Phe Gly Val Pro Asn Ala Asn Ser Ile
 1 5 10 15

Lys Gln Met Leu Leu Asp Trp Cys Arg Ala Lys Thr Arg Gly Tyr Glu
 20 25 30

His Val Asp Ile Gln Asn Phe Ser Ser Ser Trp Ser Asp Gly Met
 35 40 45

<210> 130
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 130
 Ala Phe Cys Ala Leu Val His Asn Phe Phe Pro Glu Ala Phe Asp Tyr
 1 5 10 15

Gly Gln Leu Ser Pro Gln Asn Arg Arg Gln Asn Phe Glu Val Ala Phe
 20 25 30

Ser Ser Ala Glu Thr His Ala Asp Cys Pro Gln Leu Leu Asp Thr Glu
 35 40 45

Asp

<210> 131
 <211> 34

<212> PRT

<213> Homo sapiens

<400> 131

Met Val Arg Leu Arg Glu Pro Asp Trp Lys Cys Val Tyr Thr Tyr Ile
1 5 10 15

Gln Glu Phe Tyr Arg Cys Leu Val Gln Lys Gly Leu Val Lys Thr Lys
20 25 30

Lys Ser

<210> 132

<211> 341

<212> PRT

<213> Homo sapiens

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<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

<222> (162)

<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE

<222> (326)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (333)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 132

Lys Met Glu Trp Leu Ala Asp Pro Thr Ala Trp Leu Gly Leu Leu Thr
1 5 10 15

80

Leu Ile Val Leu Xaa Leu Val Leu Gly Ile Asp Asn Leu Val Phe Ile
20 25 30

Xaa Ile Xaa Ala Xaa Lys Leu Pro Pro Glu Gln Arg Asp Arg Ala Arg
35 40 45

Leu Ile Gly Leu Ser Leu Ala Leu Leu Met Arg Leu Gly Leu Leu Ala
50 55 60

Ser Ile Ser Trp Leu Val Thr Leu Thr Gln Pro Leu Phe Glu Val Phe
65 70 75 80

Asp Lys Ser Phe Ser Gly Arg Asp Leu Ile Met Leu Phe Gly Gly Val
85 90 95

Phe Leu Leu Phe Lys Ala Thr Met Glu Leu His Glu Arg Leu Glu Gly
100 105 110

His Val Ala Gln Arg Thr Gly Asn Val Ala Tyr Ala Met Phe Trp Pro
115 120 125

Ile Val Ala Gln Ile Val Val Leu Asp Ala Val Phe Ser Leu Asp Ala
130 135 140

Val Ile Thr Ala Val Gly Met Val Asp Glu Leu Ala Val Met Met Ile
145 150 155 160

Ala Xaa Ile Ile Ser Ile Gly Leu Met Ile Val Ala Ser Lys Pro Leu
165 170 175

Thr Arg Phe Val Asn Ala His Pro Thr Val Ile Met Leu Cys Leu Gly
180 185 190

Phe Leu Met Met Ile Gly Phe Ala Leu Thr Ala Glu Gly Leu Gly Phe
195 200 205

His Ile Pro Lys Gly Tyr Leu Tyr Ala Ala Ile Gly Phe Ser Ile Leu
210 215 220

Ile Glu Leu Phe Asn Gln Ile Ala Arg Ser Arg Arg Lys Lys Ser Ala
225 230 235 240

Gln Gly Thr Leu Pro Arg Arg Glu Arg Thr Ala His Ala Val Met Arg
245 250 255

Leu Leu Gly Gly Arg Asn Leu Ala Val Glu Glu Val Gly Glu Glu Val
260 265 270

Ala Asp Leu Leu Asp Asn Pro Asp Ala Asn Gly Gly Pro Leu Phe Asp
275 280 285

Arg Arg Glu Arg Val Met Ile Ser Gly Val Leu Gln Leu Ala Glu Arg
290 295 300

Pro Ile Arg Thr Leu Met Thr Pro Arg Ala Lys Val Asp Ser Ile Asp
305 310 315 320

Leu Ser Asp Asp Pro Xaa Thr Ile Arg Leu Lys Leu Xaa Ile Arg Leu

335

Asp Lys Ser Phe Ser Gly Arg Asp Leu Ile Met Leu Phe Gly Gly Val

Phe

<210> 135

<211> 47

<212> PRT

<213> Homo sapiens

<400> 135

Leu Leu Phe Lys Ala Thr Met Glu Leu His Glu Arg Leu Glu Gly His
 1 5 10 15

Val Ala Gln Arg Thr Gly Asn Val Ala Tyr Ala Met Phe Trp Pro Ile
 20 25 30

Val Ala Gln Ile Val Val Leu Asp Ala Val Phe Ser Leu Asp Ala
 35 40 45

<210> 136

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 136

Val Ile Thr Ala Val Gly Met Val Asp Glu Leu Ala Val Met Met Ile
 1 5 10 15

Ala Xaa Ile Ile Ser Ile Gly Leu Met Ile Val Ala Ser Lys Pro Leu
 20 25 30

Thr Arg Phe Val Asn Ala His Pro Thr Val Ile Met Leu Cys Leu Gly
 35 40 45

Phe

<210> 137

<211> 50

<212> PRT

<213> Homo sapiens

<400> 137

Leu Met Met Ile Gly Phe Ala Leu Thr Ala Glu Gly Leu Gly Phe His
 1 5 10 15

Ile Pro Lys Gly Tyr Leu Tyr Ala Ala Ile Gly Phe Ser Ile Leu Ile
 20 25 30

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Glu Leu Phe Asn Gln Ile Ala Arg Ser Arg Arg Lys Lys Ser Ala Gln
 35 40 45

Gly Thr
 50

<210> 138
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 138
 Leu Pro Arg Arg Glu Arg Thr Ala His Ala Val Met Arg Leu Leu Gly
 1 5 10 15

Gly Arg Asn Leu Ala Val Glu Glu Val Gly Glu Glu Val Ala Asp Leu
 20 25 30

Leu Asp Asn Pro-Asp Ala Asn Gly Gly Pro Leu Phe Asp Arg Arg Glu
 35 40 45

<210> 139
 <211> 50
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 139
 Arg Val Met Ile Ser Gly Val Leu Gln Leu Ala Glu Arg Pro Ile Arg
 1 5 10 15

Thr Leu Met Thr Pro Arg Ala Lys Val Asp Ser Ile Asp Leu Ser Asp
 20 25 30

Asp Pro Xaa Thr Ile Arg Leu Lys Leu Xaa Ile Arg Leu Thr Arg Ala
 35 40 45

Cys Pro
 50

<210> 140
 <211> 15
 <212> PRT

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<213> Homo sapiens

<400> 140

Leu Leu Thr Ser Pro Val Ser Trp His Ser Thr Val Pro Ser Trp
1 5 10 15

<210> 141

<211> 12

<212> PRT

<213> Homo sapiens

<400> 141

Ser Ala Leu Ser Ile Ser Asn His Gln Gly Phe Phe
1 5 10

<210> 142

<211> 32

<212> PRT

<213> Homo sapiens

<400> 142

His Lys Gly Ser Gly Arg Pro Pro Thr Lys Glu Ala Met Glu Pro Met
1 5 10 15

Glu Leu Met Glu Glu Met Leu Gly Leu Trp Val Ser Ala Asp Thr Pro
20 25 30

<210> 143

<211> 10

<212> PRT

<213> Homo sapiens

<400> 143

Thr Val Lys His Glu Val Ile His Ala Leu
1 5 10

<210> 144

<211> 562

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (18)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (221)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (414)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 144
 Glu Xaa Leu Leu Pro Glu Lys Lys Asn Leu Val Lys Asn Lys Leu Leu
 1 5 10 15

Xaa Xaa Ala Ile-Ser Tyr Leu Glu Lys Thr Phe Gln Val Arg Arg Pro
 20 25 30

Ala Gly Thr Ile Leu Leu Ser Arg Gln Cys Ala Thr Asn Gln Tyr Leu
 35 40 45

Arg Lys Glu Asn Asp Pro His Arg Tyr Cys Thr Gly Glu Cys Ala Ala
 50 55 60

His Thr Lys Cys Gly Pro Val Ile Val Pro Glu Glu His Leu Gln Gln
 65 70 75 80

Cys Arg Val Tyr Arg Gly Gly Lys Trp Pro His Gly Ala Val Gly Val
 85 90 95

Pro Asp Gln Glu Gly Ile Ser Asp Ala Asp Phe Val Leu Tyr Val Gly
 100 105 110

Ala Leu Ala Thr Glu Arg Cys Ser His Glu Asn Ile Ile Ser Tyr Ala
 115 120 125

Ala Tyr Cys Gln Gln Glu Ala Asn Met Asp Arg Pro Ile Ala Gly Tyr
 130 135 140

Ala Asn Leu Cys Pro Asn Met Ile Ser Thr Gln Pro Gln Glu Phe Val
 145 150 155 160

Gly Met Leu Ser Thr Val Lys His Glu Val Ile His Ala Leu Gly Phe
 165 170 175

Ser Ala Gly Leu Phe Ala Phe Tyr His Asp Lys Asp Gly Asn Pro Leu
 180 185 190

Thr Ser Arg Phe Ala Asp Gly Leu Pro Pro Phe Asn Tyr Ser Leu Gly
 195 200 205

Leu Tyr Gln Trp Ser Asp Lys Val Val Arg Lys Val Xaa Arg Leu Trp
 210 215 220

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Asp Val Arg Asp Asn Lys Ile Val Arg His Thr Val Tyr Leu Leu Val
 225 230 235 240
 Thr Pro Arg Val Val Glu Glu Ala Arg Lys His Phe Asp Cys Pro Val
 245 250 255
 Leu Glu Gly Met Glu Leu Glu Asn Gln Gly Gly Val Gly Thr Glu Leu
 260 265 270
 Asn His Trp Glu Lys Arg Leu Leu Glu Asn Glu Ala Met Thr Gly Ser
 275 280 285
 His Thr Gln Asn Arg Val Leu Ser Arg Ile Thr Leu Ala Leu Met Glu
 290 295 300
 Asp Thr Gly Trp Tyr Lys Ala Asn Tyr Ser Met Ala Glu Lys Leu Asp
 305 310 315 320
 Trp Gly Arg Gly Met Gly Cys Asp Phe Val Arg Lys Ser Cys Lys Phe
 325 330 335
 Trp Ile Asp Gln Gln Arg Gln Lys Arg Gln Met Leu Ser Pro Tyr Cys
 340 345 350
 Asp Thr Leu Arg Ser Asn Pro Leu Gln Leu Thr Cys Arg Gln Asp Gln
 355 360 365
 Arg Ala Val Ala Val Cys Asn Leu Gln Lys Phe Pro Lys Pro Leu Pro
 370 375 380
 Gln Glu Tyr Gln Tyr Phe Asp Glu Leu Ser Gly Ile Pro Ala Glu Asp
 385 390 395 400
 Leu Pro Tyr Tyr Gly Gly Ser Val Glu Ile Ala Asp Tyr Xaa Pro Phe
 405 410 415
 Ser Gln Glu Phe Ser Trp His Leu Ser Gly Glu Tyr Gln Arg Ser Ser
 420 425 430
 Asp Cys Arg Ile Leu Glu Asn Gln Pro Glu Ile Phe Lys Asn Tyr Gly
 435 440 445
 Ala Glu Lys Tyr Gly Pro His Ser Val Cys Leu Ile Gln Lys Ser Ala
 450 455 460
 Phe Val Met Glu Lys Cys Glu Arg Lys Leu Ser Tyr Pro Asp Trp Gly
 465 470 475 480
 Ser Gly Cys Tyr Gln Val Ser Cys Ser Pro Gln Gly Leu Lys Val Trp
 485 490 495
 Val Gln Asp Thr Ser Tyr Leu Cys Ser Arg Ala Gly Gln Val Leu Pro
 500 505 510
 Val Ser Ile Gln Met Asn Gly Trp Ile His Asp Gly Asn Leu Leu Cys
 515 520 525
 Pro Ser Cys Trp Asp Phe Cys Glu Leu Cys Pro Pro Glu Thr Asp Pro

Ser Ser

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

Xaa Xaa Ala Ile Ser Tyr Leu Glu Lys Thr Phe Gln Val Arg Arg Pro
20 25 30

Ala Gly Thr Ile Leu Leu Ser Arg Gln Cys Ala Thr Asn Gln Tyr
35 40 45

<213> Homo sapiens

Ala His Thr Lys Cys Gly Pro Val Ile Val Pro Glu Glu His Leu Gln
20 25 30

Gln Cys Arg Val Tyr Arg Gly Gly Lys Trp Pro His Gly
35 40 45

<211> 45

<212> PRT
<213> Homo sapiens

<400> 147
Ala Val Gly Val Pro Asp Gln Glu Gly Ile Ser Asp Ala Asp Phe Val
1 5 10 15
Leu Tyr Val Gly Ala Leu Ala Thr Glu Arg Cys Ser His Glu Asn Ile
20 25 30
Ile Ser Tyr Ala Ala Tyr Cys Gln Gln Glu Ala Asn Met
35 40 45

<210> 148
<211> 46
<212> PRT
<213> Homo sapiens

<400> 148
Asp Arg Pro Ile Ala Gly Tyr Ala Asn Leu Cys Pro Asn Met Ile Ser
1 5 10 15
Thr Gln Pro Gln Glu Phe Val Gly Met Leu Ser Thr Val Lys His Glu
20 25 30
Val Ile His Ala Leu Gly Phe Ser Ala Gly Leu Phe Ala Phe
35 40 45

<210> 149
<211> 45
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 149
Tyr His Asp Lys Asp Gly Asn Pro Leu Thr Ser Arg Phe Ala Asp Gly
1 5 10 15
Leu Pro Pro Phe Asn Tyr Ser Leu Gly Leu Tyr Gln Trp Ser Asp Lys
20 25 30
Val Val Arg Lys Val Xaa Arg Leu Trp Asp Val Arg Asp
35 40 45

<210> 150
<211> 46
<212> PRT
<213> Homo sapiens

<400> 150
Asn Lys Ile Val Arg His Thr Val Tyr Leu Leu Val Thr Pro Arg Val


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<211> 48
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 154
Asp Tyr Xaa Pro Phe Ser Gln Glu Phe Ser Trp His Leu Ser Gly Glu
1 5 10 15

Tyr Gln Arg Ser Ser Asp Cys Arg Ile Leu Glu Asn Gln Pro Glu Ile
20 25 30

Phe Lys Asn Tyr Gly Ala Glu Lys Tyr Gly Pro His Ser Val Cys Leu
35 40 45

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<210> 155
<211> 46
<212> PRT
<213> Homo sapiens
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<400> 155
Ile Gln Lys Ser Ala Phe Val Met Glu Lys Cys Glu Arg Lys Leu Ser
  1             5             10             15
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Tyr Pro Asp Trp Gly Ser Gly Cys Tyr Gln Val Ser Cys Ser Pro Gln
20 25 30

Gly Leu Lys Val Trp Val Gln Asp Thr Ser Tyr Leu Cys Ser
35 40 45

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<210> 156
<211> 57
<212> PRT
<213> Homo sapiens
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<400> 156
Arg Ala Gly Gln Val Leu Pro Val Ser Ile Gln Met Asn Gly Trp Ile
1 5 10 15

His Asp Gly Asn Leu Leu Cys Pro Ser Cys Trp Asp Phe Cys Glu Leu
20 25 30

Cys Pro Pro Glu Thr Asp Pro Pro Ala Thr Asn Leu Thr Arg Ala Leu
35 40 45

Pro Leu Asp Leu Cys Ser Cys Ser Ser
50 55

<210> 157
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 157
 Ile Lys Glu Lys Leu His Val His Gly
 1 5

<210> 158
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 158
 Gly Phe Gly Val Tyr Ile Leu Tyr Ala
 1 5

<210> 159
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 159
 Lys Pro Ser Gly Thr Val Tyr Thr Leu Phe Ser Leu Asn Ser Gly Thr
 1 5 10 15

Leu

<210> 160
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 160
 Ala Asp Leu Thr Ala Val Cys Ser Ala Trp Lys Pro Gly Ala Lys Pro
 1 5 10 15

Val Gly Leu

<210> 161
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 161
 Ala Asp Leu Thr Ala Val Cys Ser Ala Trp Lys Pro Gly Ala Lys Pro
 1 5 10 15

Val Gly Leu

<210> 162
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 162

Gly Ser Asn Lys Leu Ile Asn His Leu Glu Gln Cys Ser Ile Gly Trp
 1 5 10 15

Ile Phe Val Cys Leu Phe Val Cys Cys Tyr Ser Phe Cys Val Met Phe
 20 25 30

Cys Ile Gln Gln Lys Trp Leu Phe Ser Phe Leu Phe Tyr Glu Val Gly
 35 40 45

Leu Met Gly Ile Asp Ser Leu Arg Lys Lys Tyr Asn Cys Lys Ser Val
 50 55 60

Glu Val Phe Pro Ser Gln Asp Val Lys Cys Gln Arg Ser Asp Ser Cys
 65 70 75 80

Gly Arg Met Gly Ser Lys Leu Tyr Lys Ser Leu Glu Met Asn Glu Val
 85 90 95

Arg Gln Leu Ser Leu Arg Gln Lys Thr Met
 100 105

<210> 163
 <211> 60
 <212> PRT
 <213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 163

Thr Thr Trp Ala Thr Ser Ser Val Val Ala Arg Xaa Thr His His Leu
 1 5 10 15

Phe Pro Pro His Ser Gly Ile Ser Val Asn Ile Gln Asp Leu Ala Pro
 20 25 30

Ser Cys Ala Gly Phe Leu Phe Gly Val Ala Asn Thr Ala Gly Ala Leu
 35 40 45

Ala Gly Val Val Gly Val Cys Leu Gly Gly Tyr Leu
 50 55 60

<210> 164
 <211> 103
 <212> PRT
 <213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 164

Thr Thr Trp Ala Thr Ser Ser Val Val Ala Arg Xaa Thr His His Leu
 1 5 10 15

Phe Pro Pro His Ser Gly Ile Ser Val Asn Ile Gln Asp Leu Ala Pro
 20 25 30

Ser Cys Ala Gly Phe Leu Phe Gly Val Ala Asn Thr Ala Gly Ala Leu
 35 40 45

Ala Gly Val Val Gly Val Cys Leu Gly Gly Tyr Leu Met Glu Thr Thr
 50 55 60

Gly Ser Trp Thr Cys Leu Phe Asn Leu Val Ala Ile Ile Ser Asn Leu
 65 70 75 80

Gly Leu Cys Thr Phe Leu Val Phe Gly Gln Ala Gln Arg Val Asp Leu
 85 90 95

Ser Ser Thr His Glu Asp Leu
 100

<210> 165

<211> 27

<212> PRT

<213> Homo sapiens

<400> 165

Asp Ser Pro Leu Thr Val Leu Pro Glu Asp Gly Tyr Gly Ser Asp Ser
 1 5 10 15

His Leu Ser Ser Gln Val Val Arg Gly Pro Thr
 20 25

<210> 166

<211> 153

<212> PRT

<213> Homo sapiens

<400> 166

Met Leu Val Thr Ala Tyr Leu Ala Phe Val Gly Leu Leu Ala Ser Cys
 1 5 10 15

Leu Gly Leu Glu Leu Ser Arg Cys Arg Ala Lys Pro Pro Gly Arg Ala
 20 25 30

Cys Ser Asn Pro Ser Phe Leu Arg Phe Gln Leu Asp Phe Tyr Gln Val
 35 40 45

Tyr Phe Leu Ala Leu Ala Ala Asp Trp Leu Gln Ala Pro Tyr Leu Tyr
 50 55 60

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Tyr Phe Leu Glu Gly Gln Ile Ala Ile Leu Tyr Val Cys Gly Leu Ala
130 135 140

Ser	Thr	Val	Leu	Phe	Gly	Leu	Val	Ala	Ser	Ser	Leu	Val	Asp	Trp	Leu
145					150					155					160
Gly	Arg	Lys	Asn	Ser	Cys	Val	Leu	Phe	Ser	Leu	Thr	Tyr	Ser	Leu	Cys
				165					170					175	
Cys	Leu	Thr	Lys	Leu	Ser	Gln	Asp	Tyr	Phe	Val	Leu	Leu	Val	Gly	Arg
			180					185					190		
Ala	Leu	Gly	Gly	Leu	Ser	Thr	Ala	Leu	Leu	Phe	Ser	Ala	Phe	Glu	Ala
		195					200					205			
Trp	Tyr	Ile	His	Glu	His	Val	Glu	Arg	His	Asp	Phe	Pro	Ala	Glu	Trp
	210					215					220				
Ile	Pro	Ala	Thr	Phe	Ala	Arg	Ala	Ala	Phe	Trp	Asn	His	Val	Leu	Ala
225					230					235					240
Val	Val	Ala	Gly	Val	Ala	Ala	Glu	Ala	Val	Ala	Ser	Trp	Ile	Gly	Leu
			245					250						255	
Gly	Pro	Val	Ala	Pro	Phe	Val	Ala	Ala	Ile	Pro	Leu	Leu	Ala	Leu	Ala
			260					265					270		
Gly	Ala	Leu	Ala	Leu	Arg	Asn	Trp	Gly	Glu	Asn	Tyr	Asp	Arg	Gln	Arg
		275					280					285			
Ala	Phe	Ser	Arg	Thr	Cys	Ala	Gly	Gly	Leu	Arg	Cys	Leu	Leu	Ser	Asp
		290				295					300				
Arg	Arg	Val	Leu	Leu	Ser	Gly	Thr	Ile	Gln	Ala	Leu	Phe	Glu	Ser	Val
305					310					315					320
Ile	Phe	Ile	Phe	Val	Phe	Leu	Trp	Thr	Pro	Val	Leu	Asp	Pro	His	Gly
				325					330					335	
Ala	Pro	Leu	Gly	Ile	Ile	Phe	Ser	Ser	Phe	Met	Ala	Ala	Ser	Leu	Leu
			340					345					350		
Gly	Ser	Ser	Leu	Tyr	Arg	Ile	Ala	Thr	Ser	Lys	Arg	Tyr	His	Leu	Gln
		355					360					365			
Pro	Met	His	Leu	Leu	Ser	Leu	Ala	Val	Leu	Ile	Val	Val	Phe	Ser	Leu
		370				375					380				
Phe	Met	Leu	Thr	Phe	Ser	Thr	Ser	Pro	Gly	Gln	Glu	Ser	Pro	Val	Glu
385					390					395					400
Ser	Phe	Ile	Ala	Phe	Leu	Leu	Ile	Glu	Leu	Ala	Cys	Gly	Leu	Tyr	Phe
				405					410					415	
Pro	Ser	Met	Ser	Phe	Leu	Arg	Arg	Lys	Val	Ile	Pro	Glu	Thr	Glu	Gln
			420					425					430		
Ala	Gly	Val	Leu	Asn	Trp	Phe	Arg	Val	Pro	Leu	His	Ser	Leu	Ala	Cys
			435				440					445			
Leu	Gly	Leu	Leu	Val	Leu	His	Asp	Ser	Asp	Arg	Lys	Thr	Gly	Thr	Arg

450

455

96

460

Asn Met Phe Ser Ile Cys Ser Ala Val Met Val Met Ala Leu Leu Ala
465 470 475 480

Val Val Gly Leu Phe Thr Val Val Arg His Asp Ala Glu Leu Arg Val
485 490 495

Pro Ser Pro Thr Glu Glu Pro Tyr Ala Pro Glu Leu
500 505

<210> 168

<211> 23

<212> PRT

<213> Homo sapiens

<400> 168

Val Glu Ala Ile Phe Ser Glu Leu Val Ile Val Leu Asn Lys Met Ser
1 5 10 15

His Cys Val Leu Ser Gly Thr
20

<210> 169

<211> 68

<212> PRT

<213> Homo sapiens

<400> 169

Val Glu Ala Ile Phe Ser Glu Leu Val Ile Val Leu Asn Lys Met Ser
1 5 10 15

His Cys Val Leu Ser Gly Thr Met Gln Ala His Pro Ile Phe Ile Tyr
20 25 30

His Lys Arg Val Phe Phe Leu Leu Lys Phe Ile Phe Tyr Ile Ile Phe
35 40 45

Cys Phe Phe Phe Leu Asp Ile Ser Thr Leu Tyr Cys Ser Leu Ser Thr
50 55 60

Phe Cys Lys Lys
65

<210> 170

<211> 26

<212> PRT

<213> Homo sapiens

<400> 170

Lys Pro Thr Lys Met Pro Leu Leu Trp Val Trp Ala Leu Ile Ala Ala
1 5 10 15

Val Ser Gln Pro Glu Leu Trp Tyr Arg Glu
20 25

<210> 171
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 171
 Lys Pro Thr Lys Met Pro Leu Leu Trp Val Trp Ala Leu Ile Ala Ala
 1 5 10 15
 Val Ser Gln Pro Glu Leu Trp Tyr Arg Glu Met Gly Val Leu Leu Leu
 20 25 30
 Phe Ser Phe Phe Phe Pro Asn Gly Ser Phe Ser Pro Val Val Leu Pro
 35 40 45
 Ser Tyr Phe Pro Asn Ser Ser Ser Tyr Phe Val Phe Cys Thr Ser Phe
 50 55 60
 Trp Arg Pro Leu Ser Phe Gln Lys Gly
 65 70

<210> 172
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 172
 Cys Phe Thr His Trp Asn Val Phe Pro Arg Leu Trp Met Thr Ser Phe
 1 5 10 15
 Leu Met Glu Arg Val Gln Glu Gly Trp Lys Thr Pro Gly Phe Lys Leu
 20 25 30
 Ser Ile Pro His Met Gly Phe Ser Ile Ile Phe Arg Pro Glu Ala Ala
 35 40 45
 Arg Pro Glu Val Arg Leu His Leu Ser Ala Leu Phe Val Leu Leu Leu
 50 55 60
 Ala Thr Leu Gly Phe Leu Leu Gly Thr Met Cys Gly Cys Gly Met Cys
 65 70 75 80
 Glu Gln Lys Gly Gly
 85